



Atty. Dkt. No.: 032301.262

PATENT

ATTN: CERTIFICATE OF CORRECTION DIVISION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor: OCHIAI, Mitsuru et al.)
Serial No.: 10/076,079)
Filed: February 15, 2002)
Patent No.: 6,852,789)
Issued: February 8, 2005)
For: Glycols Starting Materials)
Containing Dispersed Superfine)
Ceramic Powder Coagulates)
Capable of Forming Polyester)
Molded Bodies Having High)
Mechanical Strength)
and Transparency)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
Attn: Certificate of Correction Division

Dear Sir:

RENEWED REQUEST FOR CERTIFICATE OF CORRECTION
UNDER 37 CFR §1.323

The undersigned, on behalf of the Applicants, hereby requests official correction of U.S. Patent No. 6,852,789. Attached is Form PTO/SB/44, in duplicate.

Upon reviewing the issued patent, an error was noted, as follows:

- 1) The Assignee section on the coverpage of the patent should read as follows, with the deleted text being bracketed and the added text being underlined:

(73) Assignees: Degussa [-] AG (DE); Nippon Aerosil Co., Ltd.
(JP)

Applicants have previously submitted the \$100 fee due under 37 CFR 1.20(a); however, if any additional fees are required, the Examiner is authorized to charge such fees to Deposit Account No. 02-4300.

Respectfully submitted,

SMITH, GAMBRELL & RUSSELL, LLP



By: Robert G. Weilacher, Reg. No. 20,531

Dated: September 5, 2006
Suite 3100, Promenade II
1230 Peachtree Street, N.E.
Atlanta, Georgia 30309-3592
Ph: (404) 815-3593
Fax: (404) 685-6893

Please stamp with the date of receipt & return to addressee.

Inventor(s): OCHIAI, Mitsuru et al.

Serial No.: 10/076,079

Filing Date: 02/15/2002

Patent No.: 6,852,789

Issued: 02/08/2005

Title: Glycols Starting Materials Containing Dispersed Superfine Ceramic Powder Coagulates Capable Of Forming Polyester Molded Bodies Having High Mechanical Strength And Transparency

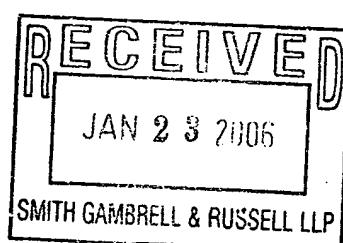
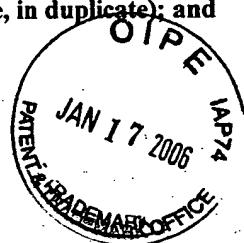
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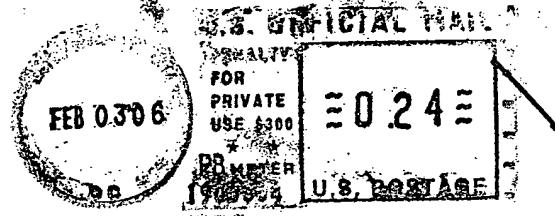
- 1) \$100.00 Check;
- 2) Request for Certificate of Correction (2 pages);
- 3) Copy of Assignment (2 pages);
- 4) Certificate of Correction (1 page, in duplicate); and
- 5) Return Receipt Postcard.

Sender: RGW/lk

Date Sent: January 13, 2006 (first class mail)

Atty. Dkt. No.: 032301.262



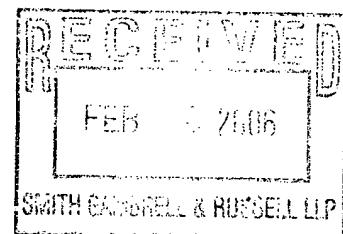
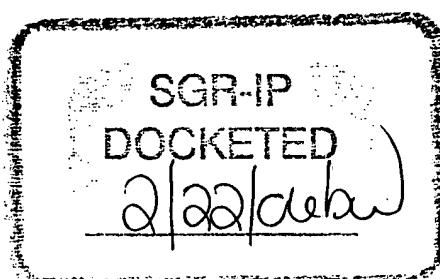


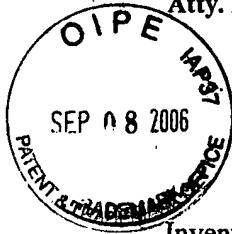
U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 20231

A request for a Certificate of Correction has
been received for U.S. Patent 6852789

C656

ROBERT G. WEILACHER
SMITH, GAMBRELL + RUSSELL, LLP
STE. 3100, PROMENADE II
~~1111 Peachtree Street, N.E.~~
ATLANTA, GA 30309-3592



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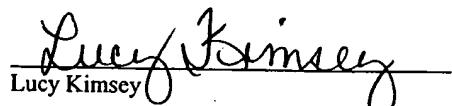
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(73) Assignees: Degussa [(-)] AG (DE); Nippon Aerosil Co., Ltd. (JP)

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, Attn: Certificate of Correction Division, on January 13, 2006.


Lucy Kimsey

A copy of the Assignment, from the inventors to Degussa AG and Nippon Aerosil Co., Ltd., is submitted herewith.

As the errors were on our part, we enclose a check in the amount of \$100.00 in payment of the fees due under 37 CFR 1.20(a).

Respectfully submitted,

SMITH, GAMBRELL & RUSSELL, LLP



By: Robert G. Weilacher, Reg. No. 20,531

Dated: January 12, 2006
Suite 3100, Promenade II
1230 Peachtree Street, N.E.
Atlanta, Georgia 30309-3592
Ph: (404) 815-3593
Fax: (404) 685-6893

ASSIGNMENT

WHEREAS the undersigned (hereinafter "ASSIGNOR") have invented certain new and useful improvements in

GLYCOLS STARTING MATERIALS CONTAINING DISPERSED SUPERFINE
CERAMIC POWDER COAGULATES CAPABLE OF FORMING POLYESTER
MOLDED BODIES HAVING HIGH MECHANICAL STRENGTH AND
TRANSPARENCY

for which an application for United States Letters Patent was executed concurrently herewith unless otherwise indicated

WHEREAS, DEGUSSA AG
BENNIGSENPLATZ 1,
DE-40474 DÜSSELDORF, GERMANY
(a German Corporation)

and

Nippon Aerosil Co., Ltd.
P.O. Box 7015
Shinjuku-Monolith 13F, 3-1
Nishi-Shinjuku 2-chome, Shinjuku-ku, Tokyo 163-09, Japan
(a Japanese Corporation)

(hereinafter "ASSIGNEES") are each desirous of acquiring an undivided one-half interest in the right and title in the same:

NOW, THEREFORE, in view of good and valuable consideration, the said ASSIGNOR hereby sells, assigns and transfers unto each of said ASSIGNEES, an undivided one-half interest in the right to the said invention in the United States and all other countries and an undivided one-half interest in the right and title in and to any and all Letters Patent, which may be granted therefore in the United States, and all other countries and in and to any and all divisions, reissues, continuations, and extensions thereof.

Said ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to said ASSIGNEES, as the assignees each of an undivided one-half interest in the right and title in and to the same, for the sole use and for the use of their respective successors, legal representatives, and assigns, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by said ASSIGNOR had this assignment and sale not been made.

Further, the ASSIGNOR agrees to communicate to said ASSIGNEES, or their respective representatives, any facts known to the ASSIGNOR respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitute, renewal, reexamination and reissue applications, execute all necessary assignment papers to cause any and all Letters Patent to be issued to said ASSIGNEES, make all rightful oaths and generally do everything necessary or desirable to aid said ASSIGNEES, their respective successors and assigns, to obtain and enforce proper protection for said invention.

The ASSIGNOR authorizes any attorneys and agents who have a power of attorney in this application to check any appropriate boxes and to insert the Serial Number and filing date in this document after it has been executed.

IN TESTIMONY WHEREOF, we have hereunto set our hands

Signatures

Dates In the Presence of:

Mitsuru Ochi'ai March 11, 2002 Dr. U. + JER
Mitsuru OCHIAI

Keiichi Iida March 11, 2002 Dr. U. + JER
Keiichi Iida

Naruyasu Ishibashi March 11, 2002 Dr. U. + JER
Naruyasu Ishibashi

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO : 6,852,789

Page 1 of 1

APPLICATION NO. : 10/076,079

ISSUE DATE : 02/08/2005

INVENTOR(S) : OCHIAI, Mitsuru et al.

**It is certified that error appears in the above-identified patent and that said Letters Patent
are hereby corrected as shown below:**

On the first page of the patent, the Assignee section should read as follows:

(73) Assignees: Degussa AG (DE); Nippon Aerosil Co., Ltd. (JP)

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Robert G. Weilacher, Esq., c/o Smith, Gambrell & Russell, LLP
1230 Peachtree Street, N.E., Suite 3100, Promenade II
Atlanta, Georgia 30309-3592

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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UNITED STATES PATENT AND TRADEMARK OFFICE

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Page 1 of 1

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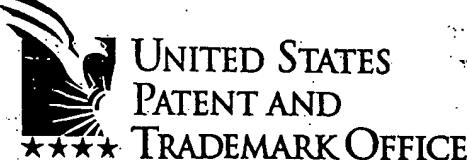
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Robert G. Weilacher, Esq., c/o Smith, Gambrell & Russell, LLP
1230 Peachtree Street, N.E., Suite 3100, Promenade II
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UNITED STATES

PATENT AND

TRADEMARK OFFICE

JULY 10, 2002

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SMITH, GAMBRELL & RUSSELL LLP
ROBERT G. WEILACHER
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WASHINGTON, D.C. 20036

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Washington, DC 20231
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SMITH, GAMBRELL & RUSSELL, LLP

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ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY,
SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 05/06/2002

REEL/FRAME: 012866/0401
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

OCHIAI, MITSURU

DOC DATE: 03/11/2002

ASSIGNOR:

IIDA, KEIICHI

DOC DATE: 03/11/2002

ASSIGNOR:

ISHIBASHI, NARUYASU

DOC DATE: 03/11/2002

ASSIGNEE:

DEGUSSA-AG
BENNIGSENPLATZ 1
DE-40474 DUSSELDORF, FED REP
GERMANY

ASSIGNEE:

NIPPON AEROSIL CO., LTD
PO BOX 7015
SHINJUKU-MONOLITH 13F-3-1 NISHI-
SHINJUKU 2-CHOME
SHINJUKU-KU, TOKYO 163-09, JAPAN

DOCKET 032 301 262

DOCKETED BY: b

DATE 7/15/02

GIVEN TO Rmw

012866/0401 PAGE 2

SERIAL NUMBER: 10076079
PATENT NUMBER:

FILING DATE: 02/15/2002
ISSUE DATE:

JOANN STEWART, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

MAY 06 2002

PATENT & TRADEMARK OFFICE

05-10-2002

Docket : 32301WD262



102084615
PATENT

To the Honorable Commissioner of Patents and Trademarks:
Please record the attached original documents or copies thereof.

1. Name(s) of conveying party(ies):

Mitsuru OCHIAI; Keiichi IIDA; Naruyasu ISHIBASHI

2. Name(s) and Address(es) of receiving party(ies):

DEGUSSA-AG
Bennigsenplatz 1
DE-40474 Düsseldorf
GERMANY

5/6/02
Nippon Aerosil Co., Ltd.
P.O. Box 7015
Shinjuku-Monolith 13F, 3-1
Nishi-Shinjuku 2-chome
Shinjuku-ku, Tokyo 163-09
JAPAN

3. Nature of conveyance: Assignment

Execution Date: March 11, 2002

4A. Application Serial No. 10/076,079

Application Filing Date: February 15, 2002

5. Name and Address of Party to whom correspondence regarding this document should be mailed:

Smith, Gambrell & Russell, LLP
1850 M Street N.W. (Suite 800)
Washington, DC 20036
202 263-4300

6. Total number of applications and patents involved : one

7. Total fee: \$40.00.

(Enclosed. Please charge any deficiency or refund any excess to counsel's deposit account.)

8. Deposit account no.: 02-4300

DO NOT USE THIS SPACE

9. Statement and Signature: To the best of my knowledge and belief, the foregoing information is true and correct, and any attached copy is a true copy of the original document.

Name of Person Signing : Robert G. Weilacher, Reg. No. 20,531

Signature:

Date: May 8, 2002

05/07/2002 KZEDIE 00000011 10076079

03 FC:581

40.00 OP

A S S I G N M E N T

WHEREAS the undersigned (hereinafter "ASSIGNOR") have invented certain new and useful improvements in

GLYCOLS STARTING MATERIALS CONTAINING DISPERSED SUPERFINE
CERAMIC POWDER COAGULATES CAPABLE OF FORMING POLYESTER
MOLDED BODIES HAVING HIGH MECHANICAL STRENGTH AND

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for which an application for United States Letters Patent was executed concurrently herewith
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hereby sells, assigns and transfers unto each of said ASSIGNEES, an undivided one-half
interest in the right to the said invention in the United States and all other countries and an
undivided one-half interest in the right and title in and to any and all Letters Patent, which
may be granted therefore in the United States, and all other countries and in and to any and
all divisions, reissues, continuations, and extensions thereof.

Said ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to said ASSIGNEES, as the assignees each of an undivided one-half interest in the right and title in and to the same, for the sole use and for the use of their respective successors, legal representatives, and assigns, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by said ASSIGNOR had this assignment and sale not been made.

Further, the ASSIGNOR agrees to communicate to said ASSIGNEES, or their respective representatives, any facts known to the ASSIGNOR respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitute, renewal, reexamination and reissue applications, execute all necessary assignment papers to cause any and all Letters Patent to be issued to said ASSIGNEES, make all rightful oaths and generally do everything necessary or desirable to aid said ASSIGNEES, their respective successors and assigns, to obtain and enforce proper protection for said invention.

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IN TESTIMONY WHEREOF, we have hereunto set our hands

Signatures

Dates In the Presence of:

Mitsuru Ochiai
Mitsuru OCHIAI

March 11, 2002 Dr. U. T. -jer

Keiichi Iida
Keiichi Iida

March 11, 2002 Dr. U. T. -jer

Naruyasu Ishibashi
Naruyasu Ishibashi

March 11, 2002 Dr. U. T. -jer



US006852789B2

(12) **United States Patent**
Ochiai et al.(10) Patent No.: US 6,852,789 B2
(45) Date of Patent: Feb. 8, 2005

(54) GLYCOLS STARTING MATERIALS
CONTAINING DISPERSED SUPERFINE
CERAMIC POWDER COAGULATES
CAPABLE OF FORMING POLYESTER
MOLDED BODIES HAVING HIGH
MECHANICAL STRENGTH AND
TRANSPARENCY

(75) Inventors: Mitsuru Ochiai, Hasuda (JP); Keiichi Iida, Kawasaki (JP); Naruyasu Ishibashi, Yokkaichi (JP)

(73) Assignee: Degussa - AG (DE)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 469 days.

(21) Appl. No.: 10/076,079

(22) Filed: Feb. 15, 2002

(65) Prior Publication Data

US 2003/0158329 A1 Aug. 21, 2003

(51) Int. Cl. 7 C08K 3/34; C08K 3/22;
C08G 63/78

(52) U.S. Cl. 524/493; 524/430; 524/604;
528/282; 528/283

(58) Field of Search 524/430, 493,
524/604, 847; 528/282, 283

(56) References Cited

U.S. PATENT DOCUMENTS

6,648,645 B1 * 11/2003 MacDougald et al. 433/223

FOREIGN PATENT DOCUMENTS

JP 63104951 * 11/1989
JP 02034659 * 2/1990

* cited by examiner

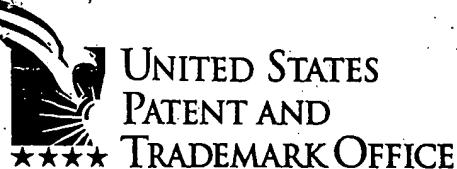
Primary Examiner—Tae H. Yoon

(74) Attorney, Agent, or Firm—Smith, Gambrell & Russell,
LLP

(57) ABSTRACT

Glycol starting materials for manufacturing a polyester molded body containing 1 to 20% by weight of dispersed superfine ceramic powder aggregates relative to the total weight of the glycol for enabling polyester molded bodies having a high mechanical strength and transparency to be manufactured. The superfine ceramic powder aggregates dispersed in the glycol starting material have a mean particle size of 0.05 to 0.5 μm as measured with a laser diffraction particle size distribution analyzer, and wherein the peak indicated in a particle size distribution curve of the superfine ceramic powder aggregates obtained based on the results of the measurement satisfies the relationship of $w/h \leq 0.7$, wherein h is the peak height and w is the peak width at one half of the peak height (a half-width).

8 Claims, 2 Drawing Sheets



UNITED STATES

PATENT AND

TRADEMARK OFFICE

JULY 10, 2002

PTAS

SMITH, GAMBRELL & RUSSELL LLP
ROBERT G. WEILACHER
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SMITH, GAMBRELL & RUSSELL, LLP

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RECORDATION DATE: 05/06/2002

REEL/FRAME: 012866/0401
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNEE:
OCHIAI, MITSURU

DOC DATE: 03/11/2002

ASSIGNEE:
IIDA, KEIICHI

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ASSIGNEE:
ISHIBASHI, NARUYASU

DOC DATE: 03/11/2002

ASSIGNEE:
DEGUSSA-AG
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GERMANY

ASSIGNEE:
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PO BOX 7015
SHINJUKU-MONOLITH 13F-3-1 NISHI-
SHINJUKU 2-CHOME
SHINJUKU-KU, TOKYO 163-09, JAPAN

DOCKET 032 301 262

DOCKETED BY: /

DATE 7/15/02

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012866/0401 PAGE 2

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Bennigsenplatz 1
DE-40474 Düsseldorf
GERMANY

5/6/02

Nippon Aerosil Co., Ltd.
P.O. Box 7015
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Signature:

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WHEREAS the undersigned (hereinafter "ASSIGNOR") have invented certain new and useful improvements in

GLYCOLS STARTING MATERIALS CONTAINING DISPERSED SUPERFINE
CERAMIC POWDER COAGULATES CAPABLE OF FORMING POLYESTER
MOLDED BODIES HAVING HIGH MECHANICAL STRENGTH AND
TRANSPARENCY

for which an application for United States Letters Patent was executed concurrently herewith
unless otherwise indicated

WHEREAS, DEGUSSA AG
BENNIGSENPLATZ 1,
DE-40474 DÜSSELDORF, GERMANY
(a German Corporation)

and

Nippon Aerosil Co., Ltd.
P.O. Box 7015
Shinjuku-Monolith 13F, 3-1
Nishi-Shinjuku 2-chome, Shinjuku-ku, Tokyo 163-09, Japan
(a Japanese Corporation)

(hereinafter "ASSIGNEES") are each desirous of acquiring an undivided one-half interest in
the right and title in the same:

NOW, THEREFORE, in view of good and valuable consideration, the said ASSIGNOR
hereby sells, assigns and transfers unto each of said ASSIGNEES, an undivided one-half
interest in the right to the said invention in the United States and all other countries and an
undivided one-half interest in the right and title in and to any and all Letters Patent, which
may be granted therefore in the United States, and all other countries and in and to any and
all divisions, reissues, continuations, and extensions thereof.

Said ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to said ASSIGNEES, as the assignees each of an undivided one-half interest in the right and title in and to the same, for the sole use and for the use of their respective successors, legal representatives, and assigns, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by said ASSIGNOR had this assignment and sale not been made.

Further, the ASSIGNOR agrees to communicate to said ASSIGNEES, or their respective representatives, any facts known to the ASSIGNOR respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitute, renewal, reexamination and reissue applications, execute all necessary assignment papers to cause any and all Letters Patent to be issued to said ASSIGNEES, make all rightful oaths and generally do everything necessary or desirable to aid said ASSIGNEES, their respective successors and assigns, to obtain and enforce proper protection for said invention.

The ASSIGNOR authorizes any attorneys and agents who have a power of attorney in this application to check any appropriate boxes and to insert the Serial Number and filing date in this document after it has been executed.

IN TESTIMONY WHEREOF, we have hereunto set our hands

Signatures

Dates In the Presence of:

Mitsuru Ochiai March 11, 2002 Dr. U. T-ger
Mitsuru OCHIAI

Keiichi Iida March 11, 2002 Dr. U. T-ger
Keiichi Iida

Naruyasu Ishibashi March 11, 2002 Dr. U. T-ger
Naruyasu Ishibashi

**UNITED STATES PATENT AND TRADEMARK OFFICE**

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

JANUARY 26, 2006

PTAS

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UNITED STATES PATENT AND TRADEMARK OFFICE
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RECORDATION DATE: 01/26/2006

REEL/FRAME: 017065/0289

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BRIEF: CORRECTIVE ASSIGNMENT TO CORRECT THE FIRST ASSIGNEE NAME FROM
DEGUSSA-AG TO DEGUSSA AG PREVIOUSLY RECORDED ON REEL 012866
FRAME 0401. ASSIGNOR(S) HEREBY CONFIRMS THE RECORDATION COVER
SHEET CONTAINED AN ERROR IN THE FIRST ASSIGNEE NAME.

DOCKET NUMBER: 032301.262

ASSIGNOR:
OCHIAI, MITSURU

DOC DATE: 03/11/2002

ASSIGNOR:
IIDA, KEIICHI

DOC DATE: 03/11/2002

ASSIGNOR:
ISHIBASHI, NARUYASU

DOC DATE: 03/11/2002

017065/0289 PAGE 2

ASSIGNEE:
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ASSIGNEE:
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SERIAL NUMBER: 10076079 FILING DATE: 02/15/2002
PATENT NUMBER: 6852789 ISSUE DATE: 02/08/2005
TITLE: GLYCOLS STARTING MATERIALS CONTAINING DISPERSED SUPERFINE CERAMIC
POWDER COAGULATES CAPABLE OF FORMING POLYESTER MOLDED BODIES HAVING
HIGH MECHANICAL STRENGTH AND TRANSPARENCY

JOANN STEWART, EXAMINER
ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

01/26/2006
500073634

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the FIRST ASSIGNEE NAME FROM DEGUSSA-AG TO DEGUSSA AG previously recorded on Reel 012866 Frame 0401. Assignor(s) hereby confirms the RECORDATION COVER SHEET CONTAINED AN ERROR IN THE FIRST ASSIGNEE NAME.

CONVEYING PARTY DATA

Name	Execution Date
MITSURU OCHIAI	03/11/2002
KEIICHI IIDA	03/11/2002
NARUYASU ISHIBASHI	03/11/2002

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PROPERTY NUMBERS Total: 1

Property Type	Number
Patent Number:	6852789

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OP \$40.00 6852789

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Total Attachments: 5

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